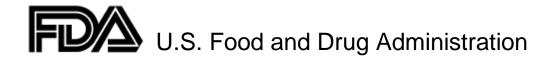


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Submitting an IND: What You Need to Know

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Topics

- IND Application: Content and Format
- 2. IND Submission: The First 30 Days
- 3. Responsibilities of Sponsors and Investigators
- 4. IND Amendments
- 5. Reporting Requirements
- 6. Inactivation; Reactivation; Withdrawal; Termination

Content

- Requirements outlined in 21 CFR 312.23
 - Cover Letter
 - Form FDA 1571
 - Form FDA 3674
 - Table of Contents
 - Introductory Statement/General Investigational Plan
 - Investigator's Brochure

- Nonclinical
 - Sufficient data to support clinical protocol
 - Basic exposure data
- Chemistry, manufacturing, and controls
 - Sufficient information to assure proper identification, quality, purity, and strength
 - Sufficient information to assess whether batches can be adequately produced and consistently supplied

- Clinical protocol
 - Determine the phase of development
 - Provide supporting data (e.g., from ex-U.S. trials, PK data)
 - Specify how to ensure safety of the subjects/patients in the study (#1 reason INDs are placed on clinical hold)

Bundling: One IND or More?

– One IND:

- Early development studies not sure of indication or dosage form
- Closely related indications within a single review division
- Multiple, closely-related routes of administration using same dosage formulation
- Combination of two or more investigational new drugs for concomitant use

- Bundling: One IND or More?
 - Multiple INDs:
 - Two or more unrelated conditions being developed
 - Multiple dosage forms being extensively investigated
 - Multiple routes of administration being extensively investigated

Format

- Paper
 - Common Technical Document (CTD) format
 - Regulatory format (21 CFR 312.23)
- Electronic
 - Must use CTD format
 - Physical media
 - Electronic Submissions Gateway (ESG)

Mailing address:

Food and Drug Administration
Center for Drug Evaluation and Research
Central Document Room
5901-B Ammendale Road
Beltsville, MD 20705-1266

No user fee required!

IND Application: Resources

How Drugs are Developed and Approved:

http://www.fda.gov/Drugs/DevelopmentApprovalProcess/HowDrugsareDevelopedandApproved/default.htm

IND Application (includes links to all IND guidances):

 http://www.fda.gov/Drugs/DevelopmentApprovalProcess/HowDrugsareDeve lopedandApproved/ApprovalApplications/InvestigationalNewDrugINDApplic ation/default.htm

Small Business Assistance: FAQs on Drug Development and INDs

http://www.fda.gov/Drugs/DevelopmentApprovalProcess/SmallBusinessAssistance/ucm069898.htm

CTD Format Guidances:

http://www.fda.gov/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/ucm065006.htm

IND Application: Resources

Electronic Submissions:

- http://www.fda.gov/Drugs/DevelopmentApprovalProcess/FormsSubmission Requirements/ElectronicSubmissions/default.htm
- Preparation questions: <u>esub@cder.fda.gov</u>

Electronic Submissions Gateway:

- http://www.fda.gov/ForIndustry/ElectronicSubmissionsGateway/default.htm
- Preparation/Registration/Policy Questions: esgprep@fda.hhs.gov
- Technical Issues: esqreg@gnsi.com

Secure e-mail account:

Contact Wendy Lee at: <u>wendy.lee@fda.hhs.gov</u>

Pre-assigned application number:

 Send one email per application number request to <u>cderappnumrequest@fda.hhs.gov</u>.

IND arrives in the Central Document Room

- If electronic: Loaded into the EDR(Electronic Document Room)
- If paper: Sent to White Oak Document Room
- Data entered into DARRTS (Document Archiving, Reporting, and Regulatory Tracking System)
- Review division's Chief, Project Management Staff (CPMS) notified

- Regulatory Project Manager (RPM) assigned
 - Your point of contact with the review division
 - Issues IND Acknowledgement letter (includes IND number; receipt date; address for future submissions; contact information)
 - Performs regulatory/administrative review of IND application for completeness
 - Tracks/manages IND review process

- Scientific Discipline Team Leaders notified and reviewers assigned
 - Clinical
 - Nonclinical pharmacology/toxicology
 - Chemistry
 - Clinical pharmacology
 - Biostatistics (if phase 3 protocol)
 - Consult reviewers as needed

- Safety Review
 - The review division will determine within 30 days of receipt of your IND whether your study is "reasonably safe to proceed" (active) or will be placed on clinical hold
 - Some review divisions may issue a "safe to proceed" letter; Otherwise, "No news is good news"
 - INDs are not approved

- Clinical Hold: [21 CFR 312.42(a)]
 - An order issued by FDA to the sponsor of an IND to delay a proposed clinical investigation or suspend an ongoing clinical investigation
 - <u>Full Clinical Hold</u>: A delay or suspension of all clinical study under an IND.
 - <u>Partial Clinical Hold</u>: A delay or suspension of only part of the clinical study under an IND (e.g., a specific protocol or part of a protocol is allowed to proceed).

- Grounds for imposing a clinical hold for phase I trials: [21 CFR 312.42(b)(1)]
 - Human subjects would be exposed to an unreasonable and significant risk of illness or injury
 - Clinical investigators are unqualified
 - Investigator Brochure is misleading, erroneous, or incomplete
 - Insufficient information to assess risks to subjects
 - Exclusion by gender for life-threatening disease

- Grounds for imposing a clinical hold for phase
 2/3 trials: [21 CFR 312.42(b)(2)]
 - All the reasons listed for phase 1 trials
 - The protocol is deficient in design to meet its stated objectives

- If a deficiency is identified that may be grounds for imposing a clinical hold:
 - The review division will attempt to discuss and satisfactorily resolve the matter with you first
 - Many potential holds can be resolved through such discussion (e.g., inadequate patient monitoring)

- If a clinical hold is imposed:
 - The review division will notify you by telephone and briefly discuss the clinical hold issues
 - A letter will follow detailing the hold issues and what you must do to resolve them

Your response to the clinical hold letter:

- Should be complete (i.e., address all the deficiencies identified in the letter)
- If complete, you will receive an acknowledgement letter
- If not complete, RPM will notify you

- Review division will respond within 30 days of receipt of your response by either:
 - Removing the clinical hold;
 - Continuing the clinical hold; or
 - Modifying the clinical hold (e.g., full to partial)
- If review team cannot meet the 30-day deadline:
 - Review division will call you and discuss review progress/what is being done to facilitate completion of the review

Sponsor Responsibilities

- General responsibilities [21 CFR 312.50]
 - Select qualified investigators
 - Provide investigators with pertinent information
 - Ensure proper monitoring
 - Ensure that the investigation is conducted according to the general investigational plan/protocol
 - Inform FDA and investigators of significant new adverse effects/risks

- Selecting investigators and monitors [21 CFR 312.53]
 - Select investigators that are qualified by training and experience
 - Obtain statement of qualifications (CV) from investigators
 - Should not use disqualified/debarred individuals (Debarment list: http://www.fda.gov/ora/compliance.ref/debar/default.htm)
 - Obtain additional information from investigators
 - Signed Form FDA 1572
 - Clinical protocol to be conducted
 - Financial disclosure [21 CFR 54]

- Informing investigators [21 CFR 312.55]
 - Provide Investigator's Brochure
 - Description of drug formulation
 - Pharm/tox effects and PK/PD information in animals and humans
 - Possible risks and side effects
 - Precautions/special monitoring
 - Provide new information regarding adverse events and safe use

- Review of ongoing investigations [21 CFR 312.56]
 - Monitor the progress of all investigations
 - Review and evaluate evidence of safety and effectiveness of the investigational drug
 - Submit reports to FDA re: safety and progress
 - Assure compliance of investigators
 - Discontinue investigation if drug presents an unreasonable and significant risk (notify FDA, IRB, investigators)

- Recordkeeping and record retention [21 CFR 312.57]
 - Receipt, shipment, and disposition of the investigational drug
 - Financial interest paid to investigators
 - Retain records for two years after drug approved OR investigations are discontinued

- Permit FDA inspection of records and reports [21 CFR 312.58]
 - Permit inspection of records and reports related to the clinical investigations upon request
 - Provide copies of records and reports upon written request
- Disposition of unused drug [21 CFR 312.59]
 - Assure return of all unused supplies of the investigational drug
 - Ensure safe disposition (does not expose humans to risks)

Transfer of Responsibilities

- You may transfer any or all of your responsibilities to a contract research organization (CRO) [21 CFR 312.52]
 - Inform FDA in writing specifying which responsibilities are being transferred
 - CRO must comply with all applicable regulations associated with the transferred responsibilities

Investigator Responsibilities

- General responsibilities [21 CFR 312.60]
 - Ensure that the investigation is conducted according to the protocol and applicable regulations
 - Protect the rights, safety, and welfare of subjects
- Control of the investigational drug [21 CFR 312.61]
 - Administer drug only to subjects
 - Do not supply the drug to anyone not authorized to receive it

Investigator Responsibilities (cont.)

- Recordkeeping and record retention [21 CFR 312.62]
 - Case histories [e.g., Case Report Forms (CRFs) and supporting data, signed and dated consent forms, medical records]
 - Disposition of the investigational drug (i.e. dates, quantity, and use by subjects)
 - Retain records for 2 years after drug is approved for the indication being investigated or 2 years after the investigation is discontinued

Investigator Responsibilities (cont.)

- Investigator reports to the sponsor [21 CFR 312.64]
 - Progress reports
 - Safety reports
 - Final report
 - Financial disclosure reports
- Assurance of IRB review [21 CFR 312.66]
 - Assure that an IRB is responsible for review and approval of the protocol
 - Report any unanticipated problems involving risk to subjects
 - Not make any protocol changes without IRB approval except to eliminate immediate hazards to subjects

Investigator Responsibilities (cont.)

- Permitting FDA inspection of records and reports [21 CFR 312.68]
- Handling of controlled substances [21 CFR 312.69]
 - Securely locked; limited access

IND Amendments

• Protocol amendments [21 CFR 312.30]

• Information amendments [21 CFR 312.31]

Protocol Amendments

- New Protocol [21 CFR 312.30(a)]
- Changes in Protocol [21 CFR 312.30(b)]
- New Investigator [21 CFR 312.30(c)]

New Protocol [21 CFR 312.30(a)]

- New study may begin provided:
 - Submitted to IND
 - Approved by IRB
- Content and format
 - Copy of the protocol
 - Significant differences from previous protocols
 - Prominent identification (cover letter; form 1571)
 - Reference to any relevant information in IND
 - Request for comment (optional)

Changes in Protocol [21 CFR 312.30(b)]

- Amendment required for:
 - Phase 1: Change significantly affecting subject safety

 Phase 2/3: Changes significantly affecting safety, scope, scientific quality

Changes in Protocol (cont.)

- Protocol changes may be implemented provided:
 - Change submitted to IND
 - Approved by IRB
- Exception: Change to eliminate an apparent immediate hazard to subjects can be implemented immediately.

Changes in Protocol (cont.)

- Content and Format
 - Description of the change
 - Reference to original protocol submission
 - Prominent identification (cover letter; form 1571)
 - Reference to any relevant information in IND
 - Request for comment (optional)

New Investigator [21 CFR 312.30(c)]

- An amendment is required when a new investigator is added to an ongoing study
 - Exception: adding a licensed practitioner to a treatment IND/treatment protocol
- Submit within 30 days of the new investigator being added
- Grouping several new investigators in one submission is permitted

New Investigator (cont.)

- Content and Format
 - Name and qualifications
 - Reference to previously submitted protocol
 - Prominent identification (cover letter; form 1571)
 - Additional info required under 21 CFR 312.23(a)(6)(iii)(b)

Information Amendments

[21 CFR 312.31]

- Amendment required for submission of essential information not within scope of protocol amendment, safety report, annual report
 - New information (e.g., clinical, clinical pharmacology, nonclinical; chemistry, study reports)
 - Discontinuance of study (within 5 days of decision)

Information Amendments (cont.)

- Submit as necessary (but to the extent possible, no more than every 30 days)
- Content and Format
 - Prominent identification (cover letter; form 1571)
 - Statement of nature and purpose
 - Organized in format appropriate for scientific review
 - Request for comment (optional)

IND Reporting Requirements

- Safety Reports [21 CFR 312.32]
- Annual Reports [21 CFR 312.33]

Safety Reports: Definitions [21 CFR 312.32(a)]

- Associated with the use of the drug: reasonable possibility of causality
- <u>Disability:</u> substantial disruption of ability to conduct normal life functions
- <u>Life-threatening adverse drug experience (ADE)</u>: immediate risk of death (based on investigator's judgment)
- <u>Serious ADE</u>: any dose resulting in death; life-threatening ADE; hospitalization/prolonged hospitalization; disability; congenital anomaly/birth defect; medical event requiring medical/surgical intervention
- <u>Unexpected ADE</u>: specificity/severity inconsistent with known safety profile

Review of Safety Information

[21 CFR 312.32(b)]

- Review all information relevant to the safety of the drug from all sources (foreign and domestic) including:
 - Clinical, epidemiological, and animal investigations
 - Commercial marketing experience
 - Scientific literature reports
 - Unpublished scientific papers
 - Reports from foreign regulatory authorities

Types of Safety Reports

- Written 15-day reports
- Telephone/fax 7-day reports
- Follow-up reports

Written Safety Reports

[21 CFR 312.32(c)(1)]

- Notify FDA in writing of:
 - Any ADE associated with the use of the drug that is both <u>serious and unexpected</u>
 - Any finding from tests in lab animals that suggests significant risks for human subjects
- When?
 - ASAP; NO LATER THAN <u>15 days</u> after receipt of information

Written Safety Reports (cont.)

- Content and Format
 - FDA Form 3500A (MedWatch) or narrative format identified as "IND Safety Report"
 - Reference previous, similar reports
 - Analyze the significance of the ADE in light of similar adverse events

Telephone/Fax Safety Reports [21 CFR 312.32(c)(2)]

- Notify FDA by telephone or fax of:
 - Any unexpected <u>fatal or life-threatening</u>
 ADE associated with the use of the drug
- When?
 - ASAP; NO LATER THAN <u>7 days</u> after sponsor's receipt of information

Follow-up Safety Reports [21 CFR 312.32(d)]

Submit all relevant follow-up info ASAP

 Missed reports (not initially determined to be reportable): Submit ASAP but NO LATER THAN <u>15 days</u> from discovery

Safety Reports: Miscellaneous

- Variations [21 CFR 312.32(c)(3)]
 - FDA may request varying frequency and format: Sponsor/FDA agreement
- Results of investigation of other safety information that does not fall under the specific reporting categories are submitted via:
 - Information amendment
 - Annual Report
- Disclaimer [21 CFR 312.32(e)]: You need not admit, and may deny, that the safety report constitutes an admission that the drug caused or contributed to the ADE

Annual Report [21 CFR 312.33]

Report of the progress of the investigation that includes:

- Individual study information
 - Title, purpose, patient population, study status
 - Total # of subjects planned, #entered to date, by age group, gender, and race; the #completed as planned, #drop-outs
 - Study results, if completed

Annual Report (cont.)

- Summary Information
 - Most frequent and most serious ADEs by body system
 - Summary of all IND safety reports submitted during past year
 - Study drop-outs due to ADEs
 - Subjects who died during study; cause of death
 - New info re drug's actions
 - Completed nonclinical studies; summary of major findings
 - CMC changes

Annual Report (cont.)

- General investigational plan for coming year
- Revisions to the Investigator Brochure
- Phase 1 study modifications not previously reported
- Significant foreign marketing developments
- Log of outstanding business (optional)

Annual Report (cont.)

 Must be submitted within 60 days of the "in effect" anniversary date

- May request bundled annual reports/waiver of anniversary date
 - Multiple applications for the same active moiety
 - Harmonize and consolidate annual report

Inactivation [21 CFR 312.45]

- You or FDA may initiate inactivation if:
 - No subjects entered into studies for ≥2 years
 - All investigations on clinical hold for ≥1 year

- If FDA initiates inactivation:
 - Pre-inactivation letter issued to you
 - You have 30 days to respond

Inactivation (cont.)

If IND inactivated:

- All investigators notified
- Stocks of drug returned to you or disposed of properly
- Annual reports need not be submitted

Reactivation [21 CFR 312.45(d)]

- If you intend to resume clinical investigations under an inactive IND, you must submit a protocol amendment that includes:
 - Proposed general investigational plan
 - Appropriate protocol(s)
 - Additional information supporting the protocol(s)
 - Reference previously submitted information
- Safety review
 - The review division will determine whether your reactivated IND is safe to proceed or will be placed on clinical hold within 30 days of receipt of your protocol amendment

Withdrawal [21 CFR 312.38]

- You may withdraw an IND at any time
 - Notify FDA
 - All investigations end
 - All current investigators notified
 - All stocks of the drug returned to you
- If IND is withdrawn due to safety reasons:
 - All of the above plus:
 - Notify reviewing IRBs
 - Reasons for the withdrawal

Termination [21 CFR 312.44]

- FDA may terminate an IND based on:
 - Deficiencies in the IND
 - Conduct of an investigation
 - An IND that remains on inactive status for ≥5 years
 (21 CFR 312.45)
- Pre-termination letter issued: allows you 30 days to respond to our proposal to terminate except where there is immediate and substantial danger to health of individuals

Questions?

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- Phone: 301-796-1017
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